

ACCESSION NR. AT4033626

Work with the machine takes place in the form of a dialogue, in which the machine facilitates the assimilation of the material, and the student contributes to the solution of problems. It is assumed that when questions are proposed the student assimilated poorly and the necessary clarifications are indicated for these areas. The logic of the machine operation makes it possible to teach using the ramified programs shown in Figures 1,a and 1,b at the enclosure. The program shown in Figure 1,a is written on the assumption that the student is somewhat familiar with the given subject. The teaching process takes place as follows: the machine proposes to the student, sequentially one after the other, a series of not more than 15 logically connected questions on a given subject 1.0, 2.0, . . . . , N.0. Analyzing the answers of the student, the machine supplies him either with the next question over channels "f", if the answer was correct, or furnishes, over channels "a", information leading to the correct answer (hints) 1.1, 2.1, 3.1, . . . . , N.1, if the answer was incorrect. In the event of correct answers after the suggestions, the next question is proposed over channels "d". If the student answers incorrectly even after the additional information, then the machine provides exhaustive clarifications on the troublesome questions over channels "b", after which the next question is submitted over channels "e". If the stu-

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ACCESSION NR: AT4033626

dent has difficulty in answering any of the proposed questions, he can request "assistance", in which event full information 1.2, 2.2, ..., N.2 is immediately provided over channels "c". Operation with the program shown in Figure 1,b differs from the above only in that the machine first submits the new material 1.2, 1.1, 1.2, with question 2.2 then posed as a development of what has gone before, and, if the student answers correctly, the exposition of the subsequent material begins. If the answer is incorrect, then leading advice 2.1 and exhaustive explanations 2.2 are given, followed thereafter by the exposition of the new section 3.0, 3.1, 3.2, etc., depending on its volume, the material will be arranged on a larger number of frames as well, but the number of frames will be a multiple of three. The machine is particularly well suited to the study of individual aspects of the subject automatically and independently. The OM-9 may also contain a television monitor, video projector, control panel and set of programs with answer cards. The programs are stored in motion picture film or magnetic cassettes. The number of the programmed themes depends on the capacity of the cassette or reel of the projector and must not exceed 54 standard film frames. The sequence in which the program texts are arranged on the film frames is indicated in appendices to the article. The material is projected on a screen and the answers are introduced.

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ACCESSION #: A-933626

by the experimenter by means of buttons. For each new question values are punched on these buttons and simultaneously written on the teaching card. Correct and incorrect answer card sets are also punched. These are later interlaced together with the film-program. The operation of the circuitry is described, certain particularities of the program of the machine are discussed and certain conclusions and possible improvements are advanced. Two examples of programming are given in the appendices, one article - one from the theory of automatic control, the other dealing with the translation of a complex German sentence into Russian. Orig. art. habs: 3 figures.

ASSOCIATION: none

SUBMITTED: 03Dec63

SUB CODE: DP

LATE ADD: 16Apr64

ENCL: 01

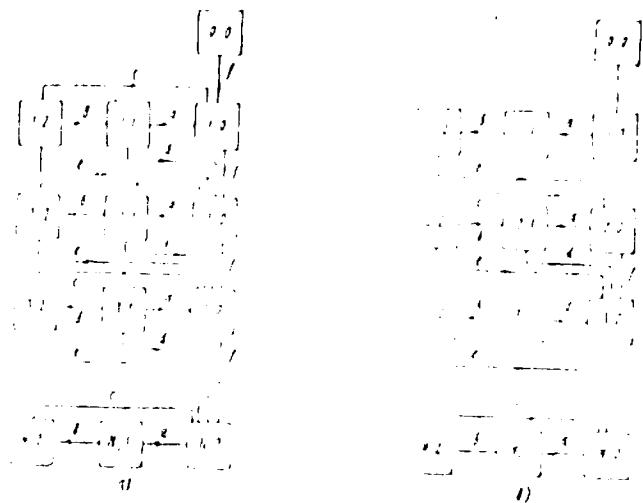
NO REP Sov: 003

OTHER: 001

Card 4/5

ACCESSION NR: AF4033626

ENCLOSURE: 01



and 5/S

Figure 1. Operating logic of the CM-9 machine.

SOKOLINSKIY, I.Ya.; MISHCHENKO, I.M.

Teaching machine with a ramified program. Izv. vys. ucheb.  
zav.; radiotekh. 6 no.4:425-434 Jl-Ag '63. (MIRA 1:11)

MISHCHENKO, I.N., Geroy Sotsialisticheskogo Truda

Communism is our cherished, vital cause. Transp. stroi. 12 no.2:5-6  
F '62. (MIRA 15:7)

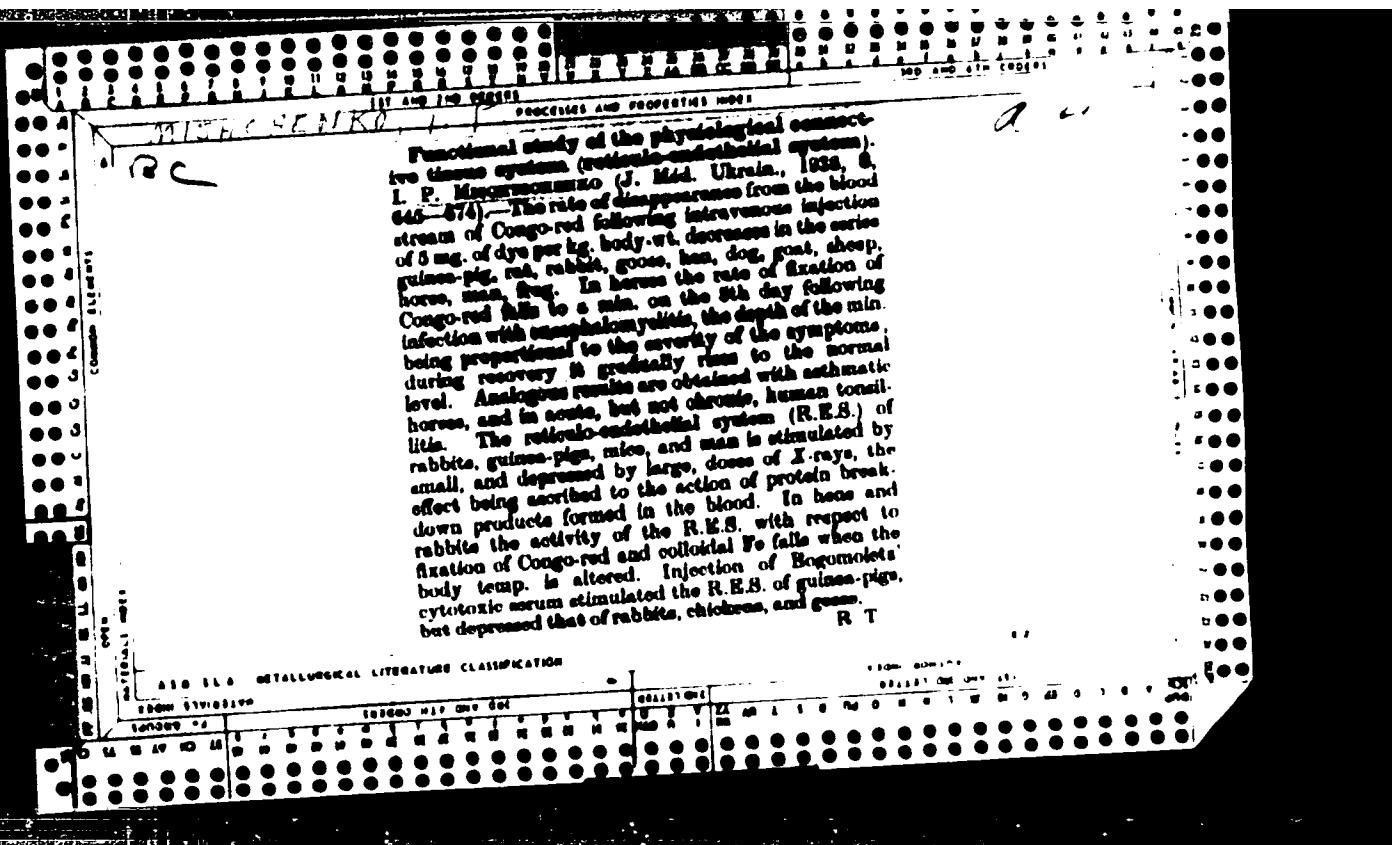
1. Nachal'nik smeny stroitel'stva No.2 Gosudarstvennogo stroitel'nogo  
upravleniya Kiyevskogo metropolitena.  
(Kiev—Subways)

CH

11G

The effect of Röntgen rays on the appearance of complement-fixing bodies in the blood. I. P. Moshchenko and M. M. Fomenko. *Ann. Roentgenol. radiol. U.S.S.R.* 13, 327-336 (English 337) 1934. Blood taken from the exptl. animals was examined by the Bordet-Gengou test with protein antigens, which were obtained from the organs (liver, kidneys, muscles) of normal animals. In the exptl. animals the same organs were x-rayed with doses varying from 20 to 100% of an H.E.D. Blood tests were made immediately after radiation, and within the next few days. The numerous observations showed regular appearance of complement-fixing bodies in the blood subsequent to the application of x-rays. This is regarded as a reaction to the appearance of foreign proteins in the blood caused by radiation. The expts. have shown that 70% of an H.E.D. is the optimal dose for causing the appearance of antibodies in the blood of dogs. This fact may prove of importance in studying the problem of immunity.  
N. N. Menshik

Data obtained by chemical tests of the inflammatory focus subjected to roentgenotherapy. I. P. Mikhalevich and S. N. Ledanov. Ann Radiol (radiol U.S.S.R.) 15, No. 5, 452 (1932). Healthy rabbit skin contains 0.6 mg % amino N. When inflamed the skin contains slightly higher amt., which, however, is greatly increased when subjected to x-rays. Thus on the second day the inflamed skin contains 24.3 mg % amino N, without irradiation, and 36.1 mg % when treated with x-rays; on the third day 71.4 and 107.7 mg % resp. On the following days the amino N content falls more rapidly in the irradiated tissue. An increase is also noticed in the amount of trypan and proteins, especially globulins. H. Cohen



ca

The condition of hunger in cancer. I. P. Mikhaleva  
Acta med. U. R. S. S., 2, No. 1, 102 (1939).  
Year, 1939, U. 2343. Mice having Kretsch carcinoma  
rats with fibroma and with Krichevskii-Senil'nikov sar-  
coma or Flexner-Jobling carcinoma, hens with Rose  
carcinoma, rabbits with tar tumor and dogs with spin-  
ganous tumors were kept in a condition of slow hunger for  
varying periods, only water being given. As compared  
to normally hungry animals, all these animals showed a  
marked shortening of life, death occurred with a slight  
loss in wt., and growth of the tumor continued during  
hunger. The amt. of N excreted in the urine (referred to  
the body wt.) remained approx. const. and corresponded  
to the normal values. Only in the case of one batch with  
vaginal carcinoma was an excretion of twice the normal  
amt. of N observed. From the 10th day on, the urea  
fraction of the total N was sharply decreased as compared  
with the value for normal hunger. The carcinomatous  
animals excreted a definite portion of the N in the form  
of non-endoxidized products. M. G. Miron

MISHCHENKO, I. P., Prof.  
Troitsk Veterinary Inst.

"Skin-tail specimen for functional examination of the reticulo-  
endothelial system in domestic animals."  
SO: Veterinarija 27(3), 1950, p. 45

MISHCHENKO, I.P.

Effect of ultraviolet irradiation in the presence of argon and nitrogen  
on absorption spectrum of amino acids. Biokhimiia 19 no.3:268-72.  
My-Je '54.

(MLRA 7:8)

(AMINO ACIDS, effect of radiations on,  
ultraviolet rays, absorp. spectrum after irradiation in  
presence of argon & nitrogen)  
(ULTRAVIOLET RAYS, effects,  
on amino acids absorp. spectrum, irradiation in presence  
of argon & nitrogen)

(NITROGEN,  
eff. of ultraviolet irradiation in presence of nitrogen  
& argon on amino acids absorp. spectrum)

(ARGON,  
eff. of ultraviolet irradiation in presence of nitrogen  
& argon on amino acids absorp. spectrum)

11A

Action of ultraviolet rays on the absorption spectra of amino acids. I.P. Mishchenko, Ioffe Institute, Inst. Akad. Nauk SSSR, No 10329. "Marked changes in the absorption spectra of amino acids (200-300 m $\mu$ ) were observed after illumination with ultraviolet rays. A 0.2% soln. of cysteine, when exposed for several hrs., turned yellow (formed cyst) and evolved H<sub>2</sub>S. Cystine also formed H<sub>2</sub>S after only a few min. irradiation. Curves are given for changes in the absorption spectra of glycine, alanine, serine, threonine, tyrosin, tryptophane, and histidine." II. Dresler.

MISHCHENKO, I.P.

Erythrocyte weight coefficient as an indicator of oxidation intensity in animals. Izv.Otd.est.nauk AN Tadzh.SSR no.9:  
89-100 '55. (MLRA 9:10)

1. Tadzhikskaya nauchno-issledovatel'skaya veterinarnaya optychnaya stantsiya.  
(OXIDATION, PHYSIOLOGICAL) (ERYTHROCYTES)

MISHCHENKO, I.P.

Cellular reaction of skin of animals to irritation. Izv.Otd.  
est.nauk AN Tadzh.SSR no.9:101-108 '55. (MLRA 9:10)

1. Tadzhikskaya nauchno-issledovatel'skaya veterinarnaya  
opytnaya stantsiya.  
(Irritation)

KNIGA, M.V.; NISHCHENKO, K.P.

Ice calorimeter with electrical calibration. Zhur. prikl. khim. 30  
no.11:1708-1711 N '57. (VNIKA 11:2)

1. Institut khimii AN Estonskoy SSR.  
(Calorimeters)

KNIGA, M.V.; VASIL'YEVA, T.M.; MISHCHENKO, K.P.

Possibility for evaluating the specific surface of kukersite shale  
on the basis of its heat of interaction with liquids. Zhur.prikl.  
khim. 30 no.12:1866-1868 D '5'. (MIRA 11:1)

1.Institut khimii Estonskoy SSR.  
(Oil shales)

MISCHENKO, K.P.; POMINOV, I.S.

Solvation of ions in electrolyte solutions. Part 5: Coordination numbers of copper, cobalt, and neodymium ions associated with their hydration in alcohol aqueous solutions [with summary in English].  
Zhur.fiz.khim. 31 no.9:2026-2031 S '57. (MIRA 11:1)

1.Leningradskiy tekhnologicheskiy institut. Kazanskiy gosudarstvennyy universitet im. V.I. Ul'yanova-Lenina.  
(Solvation) (Copper) (Cobalt) (Neodymium)

REVIEWED BY [REDACTED] 100%  
APR 19 1986

The following report is the result of an investigation  
conducted by the FBI and the Bureau of Alcohol, Tobacco  
and Firearms (ATF) into the possible criminal responsibility  
of [REDACTED]

for the death of [REDACTED] on [REDACTED] at [REDACTED]

On [REDACTED] [REDACTED] was found dead in his home. An autopsy was performed and it was determined that he had suffered from a massive heart attack.

On [REDACTED] [REDACTED] was interviewed concerning the investigation of the death of [REDACTED]. He stated that he had been retained by [REDACTED] and [REDACTED] to conduct an investigation of the death of [REDACTED]. This interview was conducted at [REDACTED] and [REDACTED] and he was asked to provide information concerning the death of [REDACTED]. A final determination will be made by [REDACTED] and their results will be presented to [REDACTED]

APR 19 1986

Chemistry of the Glass - Part I  
Sulfur, Arsenic and Hypochlorite in the Glass

In the literature there are some data concerning the solubility of sulfur in glass. However, no data could be found concerning the solubility of arsenic in glass. From the available data, it is evident that arsenic is more soluble than sulfur in glass.

**Chemical Analysis:** The following analysis was made:

Sulfur, As, Cl, Na, K, Fe, Mn, Cu, Zn, Pb, Sn, Hg, Cd, Sb, Bi, Te, Ag, Au, Pt, P, S, O, H, N.

The following analysis was made by atomic absorption:

Sulfur, As, Cl, Na, K, Fe, Mn, Cu, Zn, Pb, Sn, Hg, Cd, Sb, Bi, Te, Ag, Au, Pt, P, S, O, H, N.

The following analysis was made by atomic absorption:  
Sulfur, As, Cl, Na, K, Fe, Mn, Cu, Zn, Pb, Sn, Hg, Cd, Sb, Bi, Te, Ag, Au, Pt, P, S, O, H, N.

The following analysis was made by atomic absorption:  
Sulfur, As, Cl, Na, K, Fe, Mn, Cu, Zn, Pb, Sn, Hg, Cd, Sb, Bi, Te, Ag, Au, Pt, P, S, O, H, N.

Analysis of the glass sample:

Sulfur, As, Cl, Na, K, Fe, Mn, Cu, Zn, Pb, Sn, Hg, Cd, Sb, Bi, Te, Ag, Au, Pt, P, S, O, H, N.

Per cent:

Sulfur, As, Cl, Na, K, Fe, Mn, Cu, Zn, Pb, Sn, Hg, Cd, Sb, Bi, Te, Ag, Au, Pt, P, S, O, H, N.

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R001134620007-7

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ATTACH

PLS. I. Am., Misawa, H. I. Japan W. S. U.

SST - 100

FILE

The calculation of the fundamental thermodynamic functions  
for liquid HCl + 0.01 molal NaCl at 25°C. was carried out by  
the method of the standard state thermodynamics.

REMARKS

Standard state thermodynamics, 25°C., 1 atm.  
JAN 17 1988 MSS.

A.S.PAK

The numerical results of the standard state thermodynamics  
for liquid HCl + 0.01 molal NaCl at 25°C. were calculated  
by the method of the standard state thermodynamics. The results obtained  
from the calculation of the calorimetric standard free energy  
and enthalpy of the fundamental thermodynamic values for the  
liquid HCl + 0.01 molal NaCl at 25°C. are as follows:

$\Delta H_f^\circ(\text{HCl}) = -1,77 \text{ kcal/mole}$

$\Delta H_f^\circ(\text{NaCl}) = -11,77 \text{ kcal/mole}$

Surf 1/

$\Delta S_f^\circ(\text{HCl}) = -1,17 \text{ cal/deg.mole}$

SAC/TB-1-8-11/4B  
The Calculation of the Fundamental Thermodynamic Values for the  
MgCl<sub>2</sub> at 25° Centigrade

W. H. Brattain, R. C. Tolman

Stanford University, California

SAC/TB-1-8-11/4B

Approved for Release under the Freedom of Information Act by SAC/TB-1-8-11/4B

SAC/TB-1-8-11/4B  
June 1, 1947

SAC/TB-1-8-11/4B

MISHCHENKO, K.P., prof.; BOMSHTEYN, T.B., dotsent

[Problems of higher chemical and technical education; symposium papers presented at the Eighth Mendeleev Congress on General and Applied Chemistry] Problemy vysshego khimicheskogo i tekhnologicheskogo obrazovaniia; doklady na simpoziume na VIII Mendelevskom s"ezde po obshchei i priklednoi khimii. Moskva, 1959.  
54 p.

(MIRA 12:10)

1. Leningradskiy tekhnologicheskiy institut tselyuloznobumazhnoy promyshlennosti (for Mishchenko). 2. Moskovskiy institut khimicheskogo mashinostroyeniya (for Bomshteyn).  
(Chemistry--Congresses)

M I S H J H E N K O , K D

## 24(8) PHASE I BOOK EXPLOITATION

SOV/2809

Academy name USSR. Odipolnye inzhinierishchiye naus.

**Termodinamika i strukturnye rastvorov, tret'yi sovzemchanskiy konferentsiya po termodinamike i strukture rastvorov, trudy sovzemchanskiy konferentsiya 27-30 ianuary 1959 g. Moscow, Izd-vo AN SSSR, 1959, 295 s., 3,000 copies printed.**

Ed.: R. I. Shmelevskiy, Doctor of Chemical Sciences; Ed. of Publishing house: N. G. Tugareva; Tech. Ed.: T. V. Polyakova.

PURPOSE: This book is intended for physists, chemists, and chemical engineers.

**CONTENTS:** This collection of papers was originally presented at the conference on Thermodynamics and Structure of Solutions sponsored by the Section of Chemical Sciences of the Academy of Sciences of the USSR, and the Department of Chemistry of Moscow State University, and held in Moscow on January 27-30, 1959. Officers of the conference are listed in the Foreword. A list of other reports also read at the conference, but not included in this book, are given. Among the problems treated in this work are electrolytic solutions, ultrasonic measurements, dielectric and thermodynamic properties of various substances, spectroscopic analysis, etc. References accompany individual articles.

**Section 1. Thermodynamic Properties of Water in**

**Solutions.** A. A. and R. I. Shmelevskiy, Verification of the Theory of Molecular Dispersion of Light by Means of binary Solutions. 27

**Pure H<sub>2</sub>O.** Anisotropic Dispersion of Light and its Use in Studying Liquids and Solutions. 27

**Estimation of Dielectric Properties in Systems Acetic Acid-Water and Formic Acid-Water and the Structure of These Substances.** Chubanov, V. M. Spectroscopic Methods for Studying the Structure of Solutions. 27

**Molar M. Q. Spectroscopic Methods for Studying Compounds in Solution.** 27

**Termodinamika i strukturnye rastvorov, tret'yi sovzemchanskiy konferentsiya po termodinamike i strukture rastvorov, trudy sovzemchanskiy konferentsiya 27-30 ianuary 1959 g. Moscow, Izd-vo AN SSSR, 1959, 295 s., 3,000 copies printed.**

**Termodinamika i strukturnye rastvorov, tret'yi sovzemchanskiy konferentsiya po termodinamike i strukture rastvorov, trudy sovzemchanskiy konferentsiya 27-30 ianuary 1959 g. Moscow, Izd-vo AN SSSR, 1959, 295 s., 3,000 copies printed.**

**Antropov-Karpenko, I. L. Study of the Effect of the Surrounding Medium on the State of the Ion in the Infrared Absorption Spectra of Solutions and Aqueous Electrolytes.** 27

**Vasenko, Ye. M., A. P. Chernyshev, and N. V. Chernova. Infrared Spectra of Electrolytic Solutions in Purified Water.** 27

**Lorenzin, V. I., Yu. G. Durnovo, L. D. Demchenko, and L. V. Lopatina. Study of Association in Concentrated Aqueous Solutions of Drugs by Means of Absorption and Infrared Spectra.** 27

**Lorenzin, I. V. Effect of Ionization and Aggregation on Optical Properties of Complex Organic Molecules.** 27

**APPROVED FOR RELEASE: 06/14/2000**

MENDELEYEV, Dmitriy Ivanovich; MISHCHENKO, K.P., prof., red.; ZAYCHIK,  
N.E., red.izd-va; PEVZNER, R.S., tekhn.red.

[Solutions] Rastvory. Red. i stat'ia K.P.Mishchenko. Izd-vo  
Akad.nauk SSSR, 1959. 116j p. (MIRA 1.:4)  
(Solution (Chemistry))

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YAKOV V. V. D. YAKOV, V. V. M. REDACTED, V. V.

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CIA-RDP86-00513R001134620007-7"

MISHCHENKO, K.P.; TALMUD, S.L.; YAKIMOV, V.I.

Reaction of cellulose with liquids. Vysokom. soed. 1 no. 5:  
662-669 My '59. (nIRA 12:10)

1. Leningradskiy tekhnologicheskiy institut tsellulosno-humazhnoy  
promyshlennosti.  
(Cellulose) (Thermochimistry)

507 76-4-4-46

Flis, I. Ye., Mischenko, K. P., Timanova, T. A.  
On the Dissociation of Arsenic Acid. O. dissotsiatziya kislo-  
yakovej kisloty.

AUTHORS:

TITLE:

PERIODICAL:

ABSTRACT:

Card 1.2

The dissociation of arsenic acid was examined by potentiometric titration. Solutions of 0.01 and 0.1 moles sodium arsenate were titrated by sulfuric acid and hydrochloric acid at 0°, 25°, 35°, and 50°. The dissociation constants  $K_1$ ,  $K_2$ , and  $K_3$  of  $H_3AsO_4$  were determined from the titration curves. On the titration curve three sections can be distinguished: the first one at pH < 2.0, the second at pH 2-4.5, and the third at pH > 4. The dissociation constants  $K_1$ ,  $K_2$ , and  $K_3$  determined at various temperatures are shown in the table. The degree of hydrolysis and the composition of the aqueous solutions of  $H_3AsO_4$  at various temperatures and pH values and ion strengths of  $\mu = 0.01$ , 0.05, and 1.0

On the Dissociation of Arsenic Acid

SOV 78-4-c-5 4C

were determined. The results are shown in figures 2 and 3. The heat effects, the change of the isobaric potential, and the change of the entropy in the processes 1, 2, and 3 of the gradual dissociation were determined. The average values of the thermodynamic quantities of the dissociation processes of  $H_3AsO_4$  in aqueous solutions are shown in Table 4.

There are 3 figures, 4 tables, and 31 references, 29 of which are Soviet.

ASSOCIATION: Leningralskiy nauchno-issledovatel'skiy institut po problemam nefti (Leningrad Scientific Research Institute of Petroleum Processing), Leningradskiy tekhnologicheskiy institut (Leningrad Technological Institute)

SUBMITTED: November 5, 1977

Card 2/2

MISHCHENKO, K.P., doktor khimicheskikh nauk

Thermodynamics of some processes of woodpulp and paper  
production. [Trudy] NTO bum.i der.prom. no.8:52-53 '59.  
(MIRA 16:2)

(Woodpulp industry--Research)

3(4)

2.75 - 1 - 17

AUTHORS: Mishchenko, K.I., Talmut, A.L. and Yakimov, V.I.

TITLE: On the Value of the Specific Surface of Cellulose

PUBLISHER: Khimiya zemly, Leningrad, V.A.I. Nauka, Leningrad (USSR)

ABSTRACT: The present investigation is concerned with the determination of reliable methods for determining the specific surface of the value of the specific surface of cellulose both in the dry and the swollen state. The authors have tried to determine the most probable value of the specific surface of standard cotton cellulose and technical wood cellulose obtained by different methods. For the determination of the specific surface of cellulose in the dry state, the standard method of nitrogen vapor sorption at its melting point (-196°C) was used. For the determination of the specific surface of cellulose in the swollen state the method of ion exchange, proposed by V.I. Yakimov, was used. It is most reliable to the authors. The results confirm the reliability of the first method.

Car: 1/3

On the Value of the Specific Surface of Cellulose

The specific surface of standard cotton cellulose was found to be 16-18 m<sup>2</sup>/g. The results obtained with the two methods are in agreement. It was further stated that staining in some cases has an effect on the value of the specific surface of the plant fiber. Wool celluloses obtained with various methods are sharply distinguished from natural fiber, as far as their internal structure is concerned. The specific surface of wool cellulose was found to be 10-12 m<sup>2</sup>/g, of cellulose in the same state - 100-120 m<sup>2</sup>/g. The author made no mention of the names of A.V. Krashev, T. Pikkert, F. V.I. Goryainov, V. N. Nikitin, N.I. Nikitin. There were approximately 100 references, 10 of which are English, 1 Soviet and 1 German.

ASSOCIATION: Leningradskaya nauchno-tekhnicheskaya biblioteka po radiofizike i radioelektronike (Radiofizicheskii, Kafeina fizicheskii)

On the Value of the Specific Gravity of Water.

Kolbeinsson, K. L. (Lund University, Lund, Sweden) and  
of the Chemical Institute, Lund, Lund, Sweden  
and Cell in Chemistry, Lund, Lund, Sweden

SUBMITTED: 7 Oct 1941

Corr 1/2

5(4)

AUTHORS: Mishchenko, K. I., Iakovlev, I. P. 307-29-1172

TITLE Thermochemistry of Electrolyte Solutions (Termokhimiya rastvorov elektrolitov) V. Integral Heats of Solution of NaCl and  $MgCl_2 \cdot 6H_2O$  in Water at + $\theta$  and - $\theta^o$  (V. Integral'nyye teploty rastvorov sol'i i  $MgCl_2 \cdot 6H_2O$  v vode pri temperaturakh + $\theta$  i - $\theta^o$ )

PERIODICAL: Zhurnal obshchey khimii 1959, Vol. 29, No. 1, pp. 176-1771 (USSR)

ABSTRACT. The thermochemical investigations of aqueous solutions of electrolytes in a large number of different concentrations and temperatures is of considerable interest both with respect to the evolution of the theory of the solutions and for some industrial fields. The polytherms to be obtained of the integral heats of solution, the heat capacities and partial products (molar ratio) of these values make it possible, in connection with other constants, to characterize more thoroughly the nature of the electrolyte solutions and to clarify especially the part the solvent plays in the formation of the solution. In aqueous solution this part

Card 1/3

**Thermochemistry of Electrolyte Solutions****V. Integral Heats of Solution of NaCl and MgCl<sub>2</sub>·6H<sub>2</sub>O in Water at +2 and -7°**

had to become particularly evident at temperatures above and below ° since in this case the thermal motion less interferes with the primary water structure. Thus the interactions between the ions and the solvent are becoming manifest in a considerably pronounced way under these conditions. The integral heats of solution of NaCl, MgCl<sub>2</sub>·6H<sub>2</sub>O and MgCl<sub>2</sub> were determined at + and -° in a wide concentration range. The corresponding partial enthalpies of water and electrolyte were calculated in the molar ratio under given conditions. The comparison of the dependence of these properties on concentration and temperature with the data available in publications permitted some conclusions concerning the structure of the concentrated solutions and their change at different temperatures. There are 4 figures, 5 tables, and 11 references 11 of which are Soviet.

Card 2/3

Thermochemistry of Electrolyte Solutions.

V. Integral Heats of Solution of NaCl and  $MgCl_2 \cdot 6H_2O$  in Water at +2 and -6°

ASSOCIATION: Leningradskiy tekhnologicheskiy institut imeni Lensoveta  
(Leningrad, Technological Institute imeni Lensoveta)

SUBMITTED: June 9, 1958

Card 2/3

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CIA-RDP86-00513R001134620007-7"

AIRPORT: Port-au-Prince, N. W., MONGTERRA, P. D. (B. 1)

TITLE: An investigation of the assassination attempt against  
President Duvalier at VILLE-LE-TREMPLIN

PERIODIC: January 19, 1986 - January 20, 1986

ANALYSIS: The analysis of various materials taken from the scene of the assassination as bleachings agents in textile industry and also of bleaching by bleaching is already carried out in KODAK and KODAK  
Ref. 1 in which the following conclusions were drawn. The author was  
convinced already several times. And now in the analysis of  
the publications, the author investigated the possibility of the  
presence of chlorine in the samples of the materials taken from the  
assassination site. It is assumed that the assassin used  
chlorine at first to poison the assassin, then that the assassin used  
bleach agent to cover his tracks. In addition, it is assumed  
that the assassin had the intention of covering his tracks  
and, therefore, started to wash his hands in a sink located in the  
bathroom. The materials were used by the author of the investigation  
of the author and a local laboratory to determine whether  
the chlorine chloride and calcium chlorate were analyzed with respect

DATE:

An Investigation of the Economic Conditions  
and Social Structure at Various Institutions

The intent of the CIA in doing this is  
to get an evaluation of the American institutions.  
The results of the investigation will be used to  
evaluate the American institutions.

A detailed report will be made.

The report will be submitted to the CIA.

Also, the report will be submitted to the FBI.

It will be submitted to the FBI.

It will be submitted to the FBI.

(4)

AUTHORS. Flis I. Ye. Mishchenko, K. P., SC7/76-33-2-11/32  
Treitskaya, N. V.

TITLE. Potentials of Chlorine Electrodes at Various Temperatures

PERIODICAL. Zhurnal fizicheskoy khimii 1959, Vol 33, Nr 8, pp 1744 - 1749  
(USSR)

ABSTRACT. The oxidizability of chlorine and its compounds is important for the technology of chlorination and bleaching of cellulose and textile fabrics. In publications many investigations concerning the properties of chlorine and particularly regarding the determination of the potential ( $E$ ) of the chlorine electrode (CE) are described. In (Ref 2) it was found that a platinum electrode (PE) behaves like a (CE) in acid hypochlorite solutions. On the basis of data found in publications, the ( $E$ ) of the (PE) in acid hypochlorite solutions was investigated in the present case. The solutions contained larger amounts of dissolved chlorine (C). It was assumed that the values obtained were due to the balance  $\frac{1}{2} \text{Cl}_2 + e \rightleftharpoons \text{Cl}^-$  solution (2). Potentiometrical measurements were carried out in the most practical

Card 1/3

Potentials of Chlorine Electrodes at Various  
Temperatures

Soviet Jour.

Vol. 11, No. 1, 1964

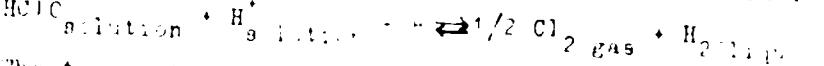
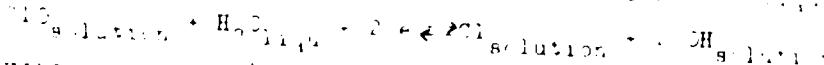
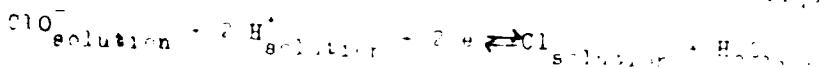
temperature range at 10, 25, 35, and 50°C. All (P) and pH measurements were carried out by the compensation method with a Raps potentiometer (with an electrometric tube 1EC1). A series of potentiometrical titrations with a 1M and glass electrode of 0.08–0.04 M NaClO-solutions and 0.1 M H<sub>2</sub>SO<sub>4</sub>-solutions were carried out, the pH and the oxidation potential (OP) being measured. The calculation of the normal potential of  $\text{Cl}_2/\text{Cl}^-$  was carried out by means of a known equation (1) (Table 1) of solutions with a (C)-concentration corresponding to the (C) pressure in equilibrium at 1 atm. The normal (OP) of the system Cl<sub>2</sub> gas–2 Cl<sup>–</sup> solution for the above temperatures were calculated from the experimental data (Table 2). The values for 25°C agree well with those found in publications (Refs. 1–3). It is assumed that for this reason the values given for other temperatures are also reliable. Equations for the temperature function of  $\text{Cl}_2/\text{Cl}^-$  and  $\Delta Z^{\circ}_{\text{Cl}_2/\text{Cl}^-}$  (change in the isobaric potential) were obtained and the values  $\Delta Z^{\circ} = \frac{d\varphi}{dT}$ , ΔH and ΔS

Card 2/3

## Potentials of Chlorine Electrodes at Various Temperatures

SC776 1134620007-7

of the equilibrium in the above temperatures were calculated. The values  $\psi$  and  $\Delta Z$  were determined for the following equilibria (at the above temperatures):



The temperature functions of the normal potentials of the latter equilibria are given by corresponding equations. There are 3 tables and 23 references, 11 of which are Soviet.

ASSOCIATION: Leningradskiy tekhnicheskij institut "Leningrad Technical Institute"

SUBMITTED: January 10 1958  
Card 3/3

KISELEVA, Ye.V.; KARETNIKOV, G.S.; KUDRYASHOV, I.V.; BOTVINKIN, O.K., doktor khim.nauk, retsenzent; MAKUL'KIN, I.A., doktor tekhn.nauk, retsenzent; MISHCHENKO, K.P., doktor khim.nauk, retsenzent; GRYAZNOV, V.M., red.; REZUKHINA, T.N., red.; ZAZUL'SKAYA, V.F., tekhn.red.

[Collection of illustrated physical chemistry problems and exercises]  
Sbornik primerov i zadach po fizicheskoi khimii. Moskva, Gos.  
nauchno-tekhn.izd-vo khim.lit-ry, 1960. 264 p. (MIRA 13:7)  
(Chemistry, Physical and theoretical--Problems, exercises, etc.)

MISHCHENKO, K.P., prof.

Work of the Leningrad Administration of the D.I.Mendeleev All-  
Union Chemical Society. Zhur. VERO 5 no.4:466-468 '60.  
(MIRA 13:12)  
(Leningrad--Chemical societies)

MIS'CHENKO, K.P.; TUMANOV, T.A.; VLIS, I.Ze.

Determination of sulfide, hydrosulfide, and pyritized sulfide  
present simultaneously in pure aqueous solutions. Zhar. akad. Nauk.  
16 no.2:2 l-217 Mr-Ap '69. (MIRA 14:7)

1. Leningradskiy tekhnologicheskiy institut tsentralno-izuchenii  
promys lennests. (Sulfide) (hydrosulfide)

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MISHCHENKO, K.P., prof., doktor khim.nauk

M.A.Ismailov's book "The Electrochemistry of Solutions." Re-  
viewed by K.P.Mishchenko. Zhur.prikl.khim. 33 no.7:396-397  
Jl '60. (MIRA 13:?)  
(Electrochemistry)  
(Ismailov, M.A.)

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JUN 17 1984

H-1310

AUTHORS: M. S. KERBER & J. A. LINDNER. INSTITUTE FOR POLYMER RESEARCH, YUCCA, U.S.A.

TITLE: INFLUENCE OF POLY(1,4-PHENYLENE TEREPHTHALAMIDE) ON THE THERMOMECHANICAL PROPERTIES OF POLY(1,4-PHENYLENE TEREPHTHALAMIDE)

PERIODICAL: Journal of Polymer Science: Part B: Polymer Physics  
1967

TEXT: Due to the interest in the physical properties of the hydrazine polyimides, the influence of the poly(1,4-phenylene terephthalamide) on the mechanical properties of the polymer was studied. The results show that the mechanical properties of the polymer are improved at temperatures above 200°C. The mechanical properties of the polymer are also influenced by the thermal treatment of the polymer.

at temperatures above 200°C. The mechanical properties of the polymer are also influenced by the thermal treatment of the polymer.  
Information concerning the mechanical properties of the polymer is available.  
Previously, the mechanical properties of the polymer were studied by the same method. In this paper, the mechanical properties of the polymer are studied by the same method.

Card 1

Thermal analysis

(Determined from the literature) The heat of melting analytically determined by the method of differential thermal analysis. The value of the heat of decomposition of the polymer was determined by the quantity of heat released during the decomposition at the above mentioned temperature. The values of the heat of fusion  $\Delta H_f$  given in the literature are: 1.06 Kcal/mole for the Soviet and 1.07 Kcal/mole for the American literature and 5 non-Soviet literature. The value of the heat of decomposition reads 1.07 Kcal/mole. *Zhur. Russ. Fiz.-Khim. Obshch. Akad. Nauk SSSR*, 674, 1964.

SUMMITER: [redacted]

Card 2 of

CONFIDENTIAL  
BUREAU

INTERVIEW WITH [REDACTED] BY [REDACTED]  
REBENCHER, [REDACTED] AND COOPERATIVE  
INVESTIGATORS OF THE FBI, NEW YORK CITY,  
THE FBI BUREAU OF INVESTIGATION, NEW YORK CITY,  
EUROPEAN BUREAU, PARIS, FRANCE, AND THE FBI,  
DIRECTORATE OF INVESTIGATION, WASH., D.C.

INTERVIEWER: Bureau, Paris, France, April 1960, Vol. 1, p. 9.  
pp. 176-178 (19)

TESTIMONY: In the last 10 years through the present such reports, published  
values of the various cars, boats, ships, etc., of all countries, were  
extremely popular among the European, American, Canadian, Australian,  
Chinese, Japanese, and the many other countries. The value of  
improved car by the year has been the same. In general, the  
mentioned quantities have been the same. The values of the  
various, the estimates were made to be  
as follows:

1950-1951: The car values were as follows:  
standard sedan, \$3,500; standard sedan, \$4,000;  
standard sedan, \$4,500; standard sedan, \$5,000;  
standard sedan, \$5,500; standard sedan, \$6,000;  
standard sedan, \$6,500; standard sedan, \$7,000;  
standard sedan, \$7,500; standard sedan, \$8,000;  
standard sedan, \$8,500; standard sedan, \$9,000;  
standard sedan, \$9,500; standard sedan, \$10,000;  
standard sedan, \$10,500; standard sedan, \$11,000;  
standard sedan, \$11,500; standard sedan, \$12,000;  
standard sedan, \$12,500; standard sedan, \$13,000;  
standard sedan, \$13,500; standard sedan, \$14,000;

1952-1953: The car values were as follows:  
standard sedan, \$3,500; standard sedan, \$4,000;  
standard sedan, \$4,500; standard sedan, \$5,000;  
standard sedan, \$5,500; standard sedan, \$6,000;  
standard sedan, \$6,500; standard sedan, \$7,000;  
standard sedan, \$7,500; standard sedan, \$8,000;  
standard sedan, \$8,500; standard sedan, \$9,000;  
standard sedan, \$9,500; standard sedan, \$10,000;  
standard sedan, \$10,500; standard sedan, \$11,000;  
standard sedan, \$11,500; standard sedan, \$12,000;

1954-1955: The car values were as follows:  
standard sedan, \$3,500; standard sedan, \$4,000;  
standard sedan, \$4,500; standard sedan, \$5,000;  
standard sedan, \$5,500; standard sedan, \$6,000;  
standard sedan, \$6,500; standard sedan, \$7,000;  
standard sedan, \$7,500; standard sedan, \$8,000;  
standard sedan, \$8,500; standard sedan, \$9,000;  
standard sedan, \$9,500; standard sedan, \$10,000;

1956-1957: The car values were as follows:  
standard sedan, \$3,500; standard sedan, \$4,000;

1958-1959: The car values were as follows:  
standard sedan, \$3,500; standard sedan, \$4,000;

1960-1961: The car values were as follows:  
standard sedan, \$3,500; standard sedan, \$4,000;

1962-1963: The car values were as follows:  
standard sedan, \$3,500; standard sedan, \$4,000;

1964-1965: The car values were as follows:  
standard sedan, \$3,500; standard sedan, \$4,000;

1966-1967: The car values were as follows:  
standard sedan, \$3,500; standard sedan, \$4,000;

1968-1969: The car values were as follows:  
standard sedan, \$3,500; standard sedan, \$4,000;

1970-1971: The car values were as follows:  
standard sedan, \$3,500; standard sedan, \$4,000;

1972-1973: The car values were as follows:  
standard sedan, \$3,500; standard sedan, \$4,000;

1974-1975: The car values were as follows:  
standard sedan, \$3,500; standard sedan, \$4,000;

1976-1977: The car values were as follows:  
standard sedan, \$3,500; standard sedan, \$4,000;

1978-1979: The car values were as follows:  
standard sedan, \$3,500; standard sedan, \$4,000;

1980-1981: The car values were as follows:  
standard sedan, \$3,500; standard sedan, \$4,000;

1982-1983: The car values were as follows:  
standard sedan, \$3,500; standard sedan, \$4,000;

MISHCHENKO, K.P.; PODGORNAYA, Ye.A.

Effective radii of water molecules in solvate ion sheaths as a  
characteristic of solvate sheath orderliness. Trudy LPI no.61:  
21-24 '60. (MIRA 15:5)

(Solvation) (Electrochemistry)

KLYUYEVA, M.L.; MISHCHENKO, K.P.; FEDOROV, M.K.

Solubility of picric acid in methyl alcohol in the temperature range from 5° to 50°. Trudy LTI no.61:47-51 '60. (MIRA 15:5)  
(Picric acid) (Solubility)

MISCHENKO, K. P. (Mishchenko, K. P.), BERECZ, Endre (translator)

Mendeleev's theory on solutions. Magyarország tudományos kiadó  
1972 Je '60.

MISHCHENKO, K.P.; DYMARCHUK, N.P.; SERGEYEVA, A.P.

Thermodynamics of the interaction of cellulose with water  
and water solutions of electrolytes. Report No.3. Trudy  
LTA no.91:65-70 '60. (MIRA 15:12)

1. Leningradskiy tekhnologicheskiy institut tsellulozno-  
bumazhnyy promyshlennosti.  
(Cellulose) (Electrolytes) Thermodynamics

MISHCHENKO, K.P.; PONOMAREVA, A.M.; RAVDEL', A.A.; BARON, N.M.;  
YEGOROV, I.M.; KVYAT, E.I.; VOLOVA, Ye.D.; MARKOVICH, V.G.;  
SEMELEV, G.I.; MARGOLIS, V.N., SHORODINA, T.P.; YAVORSKIY,  
I.V. Prinimal uchastiye FRANK-KAMENETSKIY, V.A.; TOMARCHENKO,  
S.L., red.; LEVIN, S.S., tekhn. red.

[Practical work in physical chemistry] Prakticheskie raboty po  
fizicheskoi khimii. Izd.2., perer. Leningrad, Gos. nauchno-  
tekhn. izd-vo khim. lit-ry, 1961. 374 p. (MIRA 15:2)  
(Chemistry, Physical and theoretical--Laboratory manuals)

MISHCHENKO, K.P., doktor khimicheskikh nauk, r.LiC, I.Ye., kand.khimich. nauk,  
BYNYAYEVA, M.K., kand.khimich. nauk, KRYUKOVA, Z.M., kand.khimich.  
nauk; SALNIS, K.Yu., kand.khimich. nauk; BLOGHTEN, I.I., inzh.;  
DOBRYSHIN, K.D., inzh., FISH, S.I., inzh.

Technology of the production of chlorine dioxide. Trudy LTITSBP  
no.81-38 '81.  
(Chlorine oxides)

MISHCHENKO, K.P., doktor khimicheskikh nauk; DYMARCHUK, N.P., kand.  
khimicheskikh nauk; SOKOLOV, V.V., inzh.

Thermodynamics of the interaction of cellulose with water and  
water solutions of electrolytes. Part 2: Comparing the temperature  
relationships of the heat of interaction of water with standard  
and viscose celluloses. Trudy LTITSRP no.8:100-113 '61.  
(MIRA 1963)

(Heat of adsorption) (Woodpulp)

MISHCHENKO, K.P., doktor khimicheskikh nauk; DYMARCHUK, V.P., kand.  
khimicheskikh nauk; SVERKINA, I.V., inza.

Thermodynamics of the interaction of cel lulose with water and  
water solutions of electrolytes. Part 4: Effect of predissolved  
nitrates on the integral heat of the interaction of cel lulose  
with water. Trudy LTITSBP no.8:114-119 '61. (MIRA 1-1)  
(Woodpulp) (Nitrates) (Heat of adsorption)

MISHCHENKO, K.P.

M.V.Lomonosov founder of the law of conservation (on the 250th  
anniversary of his birth). Izv.vys.ucheb.zav.; khim.i khim.tekn.  
4 no.6:882-888 '61. (MIRA 15:3)  
(Lomonosov, Mikhail Vasil'evich, 1711-1765)

MISHCHENKO, K.P., prof.; PODGOINAYA, Ye.A.

Thermochemistry of electrolyte solutions. Part 6: Aqueous  
solutions of  $\text{CoCl}_2$  at different temperatures. Zmtr. ob. khim. 31  
no.6:1743-1745 Je '61. (MIRA 14:6)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.  
(Cobalt chloride) (Heat of solution)

KUSTODINA, V.A.; MISHCHENKO, K.P.; FLIS, I.Ye.

Thermodynamic characteristics of the interaction between chlorine monoxide and sodium hydroxide. Zhur. prikl. khim. 34 no.1:125-129  
Ja '61. (Chlorine oxide) (Sodium hydroxide) {MIRA 14:1}

FLIS, I.Ye.; MISCHENKO, K.P.; KUSTODINA, V.A.

Thermodynamic characteristics of the reaction between chlorine  
monoxide and hydrogen peroxide in an alkaline medium. Zhur. prikl.  
khim. 34 no.2:306-311 F '61. (MIRA 14:2)  
(Chlorine oxide) (Hydrogen peroxide)

MISHCHENKO, K.P.; FEDOROV, M.K.

Activities of the solvent in methanol solutions of picric acid in the temperature range from 5° to 50°. Zhur.prikl. khim. 34 no.8:1889-1891 Ag '61. (MIRA 14:8)  
(Picric acid) (Methanol)

MISHCHENKO, K.P.; FEDOROV, M.K.

Structure of picric acid solutions in methanol. Zhur.strukt.khim.  
3 no.1:15-20 Ja-? '62. (VINITI 15:3)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.  
(Picric acid) (Methanol)

LYMARCHUK, N.P., kand. khim. nauk; KULRYAVTSEVA, I.V., inzh.;  
MISHCHENKO, K.P., doktor khim. nauk; TALMUD, S.L., kand. khim. nauk

Thermodynamics of woodpulp interaction with water and aqueous  
solutions of electrolytes. Report No.5: Comparing the "active"  
surfaces and heat of interaction with water of unbleached pulp  
and viscose cellulose obtained therefrom before and after  
fractionization. Trudy LTITSBP no.10:57-64 '62.

(MIRA 16:8)

(Woodpulp) (Heat of wetting) (Electrolytes)

FLIS, I.Ye., doktor khimicheskikh nauk; MISHCHENKO, K.P., doktor khimicheskikh nauk; TIMANOVA, T.A., kand.khimicheskikh nauk

Thermochemical study of the reduction reaction of chlorine dioxide and chlorine with sulfuric anhydride in water solutions at various temperatures. Trudy LTITSBP no.11:94-98 (ed.). (MIRA 1991.)

PUSENOK, G.I., inzh.; FLIS, I.Ye., doktor khim.nauk; MISHCHENKO, K.P.,  
doktor khim. nauk; BYNYAYEVA, M.K., kand.khim. nauk

Spectrophotometric method for studying the equilibrium of the  
dissociation of hypobromous acid in aqueous solutions. Trudy  
LTITSBP no.11:118-123 '62. (MIRA 14:V)

ARKHIPOVA, G.P., inzh.; PLIG, .Ye., doktor khim.nauk; MISHCHENKO, V.V.,  
doktor khim.nauk

Thermochemical study of the reduction of potassium chlorate by  
sulfite in an acid medium. Trudy LTITSBP no.11:124-127 '66.

Spectrophotometric analysis of acid sulfite solutions. 128-133  
(MIRA 1966.)

ZH. LINA, L.P., Inst. of Chem., Acad. of Sci. USSR

Method for measuring and eliminating the coefficients of the activity  
of the components of electrolyte solutions. Trudy LTITSBP no.11:  
134-140 '62.

(MIRA 16:10)

FLIS, I.Ye.; MISHCHENKO, K.P.; SALNIS, K.Yu.

Study of the equilibrium  $\text{ClO}_3^- + \text{Cl}^- \rightleftharpoons 2\text{H}^+ \text{ClO}_2 + \text{O}^- \text{Cl}_2 + \text{H}_2\text{O}$  at various temperatures. Zhur.prikl.khim. 34 no.10-12 p. 1975  
'62. (Chlorine oxides) 'Phase rule and equilibrium'

KUSTODINA, V.A.; MISHCHENKO, K.P.; VLIS, I.Ye.

Thermodynamics of formation of chlorine monoxide in carbon  
tetrachloride. Zhur.prikl.khim. 35 no.11:1374-1376 Je '62.  
(MIRA 1977)  
(Chlorine oxides) (Carbon tetrachloride)  
(Heat of formation)

MISHCHENKO, K.P.; POLTORATSKIY, G.M.

Pressure of benzene vapors at the range of temperatures from  
11 to 40°C. Zhur.prikl.khim. 35 no.7:1638-1640 Jl '62.  
(MIRA 15:8)

(Benzene) (Vapor pressure)

MAKOLKIN, Ivan Afanas'yevich; SHMELEV, Boris Aleksandrovich;  
IZMAYLOV, A.V., doktor khim. nauk, retsenzent;  
KARAPET'YANTS, M.Kh., doktor khim. nauk, retsenzent;  
MISHCHENKO, K.P., doktor khim. nauk, retsenzent;  
FEDOROVA, T.P., red.; PARANOV, Yu.V., tekhn. red.

[Collection of examples and problems in physical and colloid chemistry] Sbornik primerov i zadach po fizicheskoi i kolloidnoi khimii. Moskva, Rosvuzizdat, 1963. 181 p.  
(MIRA 16:4)

(Chemistry, Physical--Problems, exercises, etc.)

PARAM, A.A.; KOKUSHKIN, O.A.; MISHCHENKO, K.P.; FLIS, I.Ye.

Laboratory study of the extraction of a complex catalyst from  
polyethylene dispersions by methanol in rotary apparatus.  
Plast. massy no.8:7-11 '63. (MIRA 16:2)

(Polyethylene) (Catalysts)

BARAM, A.A.; KOKUSHKIN, O.A.; MISHCHENKO, K.P.; FLIS, I.Ye.; ARKHIPPOVA,  
Z.V.; VAVILOVA, I.I.; MONAKHOVA, Ye.V.; SHCHUTKIY, S.V.

Recovery of complex catalysts from dispersions of polyethylene  
by means of methanol in a rotary apparatus. Plant. massy  
(MIFR 16:12)  
no.11:58-59 '62.

MISHCHENKO, K.P.; SOKOLOV, V.V.

Thermodynamics and structure of nonaqueous solutions of electrolytes.  
Part 3: Comparison of the structures of solutions of sodium  
perchlorate in acetone and water. Zhur.strukt.khim. 4 no.2:184-188  
Mr-Ap '63. (MIRA 16:5)

1. Leningradskiy tekhnologicheskiy institut tsellyulozno-bumazhnoy  
promyshlennosti.

(Sodium perchlorate) (Acetone)  
(Electrolyte solutions—Thermodynamic properties)

SOKOLOV, V.V., ZHILINA, S.P., MISHCHENKO, K.A.

Thermodynamics of the vaporization of acetone at very low temperatures. Zhurn. priklad. chim. 46, No. 10, p. 2144, 1974.

(Acetone) (Russian)

OSINSKA-TANEVSKA, S.M.; BYNYAYEVA, M.K.; MISHCHENKO, K.P.; PLIS, I.Ye.

Spectrophotometric determination of the constants of dissociation  
of hypochlorous acid at various ~~temperatures~~. Zhur.prikl.khim.  
36 no. 6:1212-1217 Je '63. (MIRA 16:8)  
(Hypochlorous acid) (Dissociation) (Spectrophotometry)

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1775 1/12/86 YU, M., 1/12/86, 1/12/86, 1/12/86, 1/12/86.

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1/12/86, 1/12/86, 1/12/86, 1/12/86, 1/12/86, 1/12/86, 1/12/86,  
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ARMED FORCES MEDICAL, KOREAN WAR VETERANS, NEW YORK CITY.

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CIA-RDP86-00513R001134620007-7"

MISHCHENKO, K.I.; SITENKOV, V.V.

Thermodynamics and structure of monopole in electrolyte solutions.  
Part 5: Solutions of sodium iodide and perchlorate in acetone and  
water at various temperatures. Zhur. strukt. khim. 5 (1963) 121-127  
N.D. '64. 11' MPa 1'

1. Leningradskiy tekhnologicheskiy institut tsallyulochno-tekhnicheskoy  
promyshlennosti.

FLIS, I. Ye. [deceased]; VISHCHENKO, K.P.; PUSENOK, G.I.

Spectrophotometric determination of the dissociation constant of hypobromous acid at various temperatures. Izv. vys. ucheb. zav.; khim. i khim. tekhn. 7 no.5:764-767 '64 (MIRA 1961)

I. Kafedra fizicheskoy i kolloidnoy khimii Leningradskogo tekhnologicheskogo instituta tsellyulozno-bumazhnay promstretnosti.

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AUTHOR: Dymarchuk, N. P.; Mishchenko, K. P.; Tomina, T. V.

TITLE: Characteristics of the molecular weight of cellulose triacetate obtained by acetylation of wood cellulose by a combination of osmometric and viscometric methods

SOURCE: Zhurnal prikladnoy khimii, v. 37, no. 10, 1964, 2263-2268

TOPIC TAGS: cellulosic plastic, cellulose, molecular weight

Abstract: Physical nonuniformity of cellulose triacetate obtained by acetylation of wood cellulose is studied in this report. A batch of partially saponified cellulose triacetate with an acetyl number of 61 and a degree of polymerization of the wood cellulose specimens equal to 1280 was selected for the investigation. To determine the chemical nonuniformity in the original samples and in subsequent fractions of the original sample, the content of bound acetic acid was determined. It was found that in all cases the content was 61%, that is, the fractions were chemically homogeneous. The molecular weight was calculated from data of viscosimetric measurements. Orig. art. has 6 formulas, 4 graphs, and 3 tables.

Card 1/2

L 38582-65

ACCESSION NR: AP5011046

ASSOCIATION: Leningradskiy tekhnologicheskiy institut tsellulosno-tumashmoy  
proizvodstvi (Leningrad Technological Institute of the Cellulose-Paper Industry)

SUBMITTED: 03 Nov 62

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SUB CODE: MT, GC

NO REF Sov: 005

OTHER: 001

JPRS

- C/S  
Card 2/2

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CIA-RDP86-00513R001134620007-7

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SHALL FLY, U.S.A.; MICHIGAN, MI.

The aircraft shall have a maximum gross weight of 10,000 lbs.  
of which 1,000 lbs. may be payload, 500 lbs. may be fuel  
and 500 lbs. may be water. The aircraft must be able to

take off and land vertically. The aircraft must be able to fly  
at a minimum altitude of 10,000 ft. above ground level.

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1900-1910, electron beam energy increased from 1000  
eV to 1500 eV, corresponding to an increase in current  
increased from 100 mA to 150 mA.

Electromagnetic field strength increased from 1000 G to 1500 G.  
Intensity decreased from 1000 A/cm<sup>2</sup> to 1500 A/cm<sup>2</sup>.  
Ionization potential increased from 100 eV to 150 eV.

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CIA-RDP86-00513R001134620007-7"

1. E. V., Neueren 04/1931, gebur. 01. November 1906, geb.  
Familie: Ehefrau, geb. 1906, geboren 01. Januar 1931, geb.  
Kind: Sohn, geboren 1931, geboren 01. Januar 1931, geb.  
Bank: keinenzent, keinenzent, keinenzent, keinenzent, keinenzent,  
keinenzent, keinenzent, keinenzent, keinenzent, keinenzent.

2. Wohnort: keinenzent, keinenzent, keinenzent, keinenzent, keinenzent  
3. Arbeit: keinenzent, keinenzent, keinenzent, keinenzent, keinenzent

DANILOV, S.N., prep.; ARBUZOV, A.Ye., red.; VVEDENSKIY, A.A.,  
red.; VENUS-DANISOVA, E.L., red.; ZABROVA, A.I., red.;  
GORFE, I.S., red.; KALEZHET, Yel.B., red.; LITVINOV, I.P.,  
red.; MISHCHENKO, K.I., red.; NEFEDOV, M.S., red.; PETROV,  
A.A., red.; FREYDLETA, Kh., red.; SHIVAKOV, V.M., red.;  
SHUKAREV, S.A., red.; VYPOVET, Yu.K., red.

[biologically active compounds] Biologicheski aktivnye  
sokladeniia. Moscow, Nauka, Publ. 304 p.

(Mira Press)

MISHCHENKO, K.P.; TUNGUSOV, V.P.

Thermochemistry of nonaqueous electrolyte solutions. Part 1: Heats of dissolution in ethylene glycol of NaI at 25 and 2.5° and of KI at 25°. Teoret. i eksper. khim. 1 no.1:55-59 Ja-F '65. (MIRA 18:7)

1. Leningradskiy tekhnologicheskiy institut tsellulozno-bumazhnoy promyshlennosti.

MISHCHENKO, K.P.; SHADSKIY, S.V.

Thermochemistry of nonaqueous electrolyte solutions. Part 2: Heats  
of dissolution of sodium iodide in a water-dioxane solvent. Teoret.  
i eksper. khim. 1 no.1:60-65 Ja-F '65. (MIRA 18:7)

1. Leningradskiy tekhnologicheskiy institut tsellyulozno-bumazhnoy  
promyshlennosti.

DANILOV, S.N., red.; ZAKHAROVA, A.I., red.; ARBUZOV, A.Ye.,  
red.; VYEVOLIN, A.A., red.; VENETS-DANILLOVA, E.P., red.;  
IOFFE, I.S., red.; KAVTSEVA, Yeliz., red.; LUTSKENK,  
I.F., red.; MICHENEK, K.F., red.; NIMTSEV, I., red.;  
PETROV, A.A., red.; PITTINA, R.Kh., red.; SHARYAKIN,  
I.M., red.; SHUKAREVA, S.A., red.; TIKHIEV, Yu.K., red.

(Problemy i issledovaniya v oblasti organizatsii ro-  
zantseza. T. 1. Minsk, 1971. - 120 s. - VI-148 p.)

MISHCHENKO, L. S., E. N. DUBOV, N. V.

Thermochimistry of nonaqueous electrolyte solutions. Part 3: Heats  
of solution of NaI and KI in methanol. Tezis. I skoper. khim. i  
no. 2; 201-204. Minsk. 1965.  
(MIRA 1965)

1. Leningradskiy tekhnicheskii in-t po zashchite sredy i bezopasnosti pri myashennii itd.

ZHILINA, L.P.; MISHCHENKO, K.P.

Thermochemistry of nonaqueous electrolyte solutions. Part 4  
Integral heats of dissolution of picric acid in acetone and  
sodium picrate in methanol as a function of concentration at  
10 and 25°C. Teoret. i eksp. khim. 1 no. 3:361-366 My.-Je '65.  
(MIRA 18-9)

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bumazhnoy promyshlennosti.

TANEVSKA OS IZVKA 11.M "Den' vake Osinske, S.", stashev, MICHAELO, R.P.

A, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z  
1. MICHAELO, Den' VAK Osinske, S., R.P. R.P.  
B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z  
MICHAELO, R.P.

\* Den' vake Osinske, S., R.P. - Den' vake Osinske, S., R.P.  
Takuya Osinske, S., R.P. - Takuya Osinske, S., R.P.  
Takuya Osinske, S., R.P. - Takuya Osinske, S., R.P.